

Grevillea,

A MONTHLY RECORD OF CRYPTOGAMIC BOTANY,
AND ITS LITERATURE.

NOTICES OF NORTH AMERICAN FUNGI.

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It is proposed in this and future papers to continue what was already begun in the "Annals of Natural History" for December, 1853, and October, 1859. Of species already described only the more rare will be noticed, of all undescribed species the characters will be given. Specimens of many have been published without characters by Mr. H. W. Ravenel in his "Fungi Caroliniani." Some have already been described in my Decades of Fungi contained in Sir W. J. Hooker's "London Journal of Botany" and the "Kew Garden Miscellany," and of these the characters will be given, as the works may not be readily accessible. The numbers will be continued from the Paper of 1859. The cyphers following the descriptive characters are those of an enormous mass of Fungi, amounting to more than six thousand numbers, forwarded to me from time to time by the late Dr. Curtis.

101. **Lentinus omphalodes.** *Berk. & Curt.*—Pileo infundibuliformi, tenui; stipite gracili, sursum incrassato, basi fibrilloso spongiosoque; lamellis integris, angustis, decurrentibus. No. 3624. Pennsylvania, Dr. Michener.

Pileus $\frac{1}{2}$ in. across, infundibuliform, thin; stem $\frac{1}{2}$ - $\frac{3}{4}$ in. high, 1 line thick, slender, incrassated upwards, fibrillose and spongy at the base; gills entire, narrow, decurrent.

102. **Lentinus Micheneri.** *B. & C.*—Pileo umbilicato, ochraceo, glabro; margine lobato; stipite basi spongioso, umbrino; lamellis acie serrulatis. No. 3962. Penns. Dr. Michener.

Pileus $1\frac{1}{2}$ in. across, umbilicate, ochraceous, smooth, margin lobed; stem 1 in. high about $\frac{1}{4}$ in. thick, spongy at the base, umber; margin of the gills serrated.

103. **Lentinus hæmatopus.** *B.*—Pileo umbilicato depressove, ochraceo, glaberrimo; stipite brevissimo, cruento; lamellis decurrentibus, margine laceratis. N. America, locality unknown.

Pileus $1\frac{1}{4}$ - $1\frac{3}{4}$ in. across, umbilicate or depressed, ochraceous, quite smooth; stem 1-2 lines high, blood red, almost laccate at the base, $\frac{1}{4}$ in. thick; gills decurrent, margin lacerated.

104. **Lentinus pallidus.** *B. & C.*—Pileo convexo-plano, margine

fortiter inflexo; stipite sursum glabro, deorsum furfuraceo; lamellis decurrentibus, margine laciniatis. No. 2586. Car. Inf. Curtis.

Pileus $\frac{3}{4}$ in. across, convexo-plane; margin inflexed; stem $1\frac{1}{2}$ in. high $2\frac{1}{2}$ lines thick, smooth above, and furfuraceous below; gills decurrent, lacinate at the margin.

* **Lentinus lepideus.** Fr.—No. 1259, Car. Inf.

* **Lentinus tigrinus.** Fr.—No. 963. Santee River. No. 3148, Texas (C. Wright) is, I believe, a monstrous state of this species in which the gills form a reticulated spongy mass like the hymenium of *Secotium*. The same thing occurs in Ohio.

* **Lentinus Ravenelii.** B. & C. Kew Gard. Misc. i. p. 100.—Pileo tenui, umbilicato, subtiliter punctato-squamoso, lamellis tenuibus, dente-decurrentibus, margine laceratis. No. 1706, Santee River, Ravenel. No. 2716, Car. Inf. Curtis. No. 4632, Alabama, Beaumont.

Pileus $\frac{1}{2}$ -1 in. across, thin, umbilicate, delicately punctato-squamoso; stem $\frac{1}{2}$ - $1\frac{1}{2}$ in. high, 1 line thick; gills thin, decurrent with a tooth; margin lacerated.

* **Lentinus Lecomtei.** Fr.—No. 5152. Penns. Dr. Michener, on walnut.

* **Lentinus ursinus.** Fr.—No. 3983. Penns. Dr. Michener.

* **Lentinus pelliculosus.** Fr.—No. 2585. Car. Inf. Ohio, Lea.

* **Lentinus vulpinus.** Fr.—Ohio, Lea.

* **Xerotus nigrita.** Léév.—No. 2868. Car. Inf. Ravenel, on *Rhus radicans*, *R. toxicodendron*, & *Laurus Carolinæ*.

* **Xerotus lateritius.** [B. & C.—No. 2563. Santee Canal. Ravenel.

105. **Xerotus viticola.** B. & C. *X. lateritius*, Rav. Fasc. iv. no. 3.—Pileo tenui nigro ramoso-sulcato scabro; margine pallidiore; lamellis latiusculis. No. 1975. Car. Inf. Curtis.

Pileus $\frac{3}{4}$ in. across, thin, black, ramoso-sulcate, rough; margin paler; gills rather broad.

* **Lenzites repanda.** Fr.—No. 3870. Alabama, Peters.

—106. **Lenzites glaberrima.** B. & C.—Pileo suberoso, dilatato, e disco orbiculari, oriundo, sursum sulcato-zonato, albido, glaberrimo; lamellis poroso-anastomosantibus; interstitiis angustissimis. Santee River. Ravenel.

Pileus by confluence 7 in. across, 3 in. long, suberose, dilated, springing from an orbicular disc, sulcato-zonate above, whitish, quite smooth; gills poroso-anastomosing, interstices about $\frac{1}{7\frac{1}{2}}$ in. wide.

* **Lenzites Klotzschii.** B.—No. 90. Car. Sup. Curtis. No. 968. Santee River. No. 5409. New England. Sprague.

* **Lenzites unguilæformis.** B. & C.—Kew Gard. Misc. i. p. 101.

Pileo unguilæformi, rugoso, pallido, e velutino glabrato; margine tenui; lamellis latis, poroso-ramosis, undulatis, acie acutis, tomentosis, antice rudimentariis. No. 24. Car. Sup. Curtis.

Pileus 2 in. across, $1\frac{1}{4}$ in. long, hoof-shaped, rugose, pallid, velvety, then becoming smooth; margin thin; gills broad, poroso-ramose, waved; margin acute, tomentose, rudimentary behind.

* **Lenzites Berkeleyi.** *Lév.*—No. 317. Car. Sup. Curtis. No. 4644. Alabama, Beaumont.

* **Lenzites Crataegi.** *B.*—Ohio, Lea. No. 2534. Car. Inf. On *Liquidambar*. No. 4278. Penns. Michener. No. 4480, on Birch, Car. Sup. Curtis. No. 4532. Alabama, Peters. No. 5856. Maine, Morse. No. 6169.

* **Lenzites corrugata.** *Kl.*—No. 1866, on Chestnut, Rhode Island, Bennett. No. 5661, 5802. New England, Sprague. It is *Dædalea zonata* of Schweinitz Herbarium.

* **Lenzites tricolor.** *Fr.*—No. 967, 1347. Santee River, Ravenel. No. 1391. Car. Inf. Curtis.

—107. **Lenzites rhabarbarina.** *B. & C.*—Pileo reniformi, zonato, rugoso, e velutino subglabrato, rhabarbarino, fasciis rubris demum picto; lamellis subramosis, rhabarbarinis, acie laceratis. No. 3849, 4796, Car. Inf. Curtis. Allied to *L. sepiaria*.

Pileus reniform $1\frac{1}{4}$ in. across, $\frac{3}{4}$ in. long, zonate, rugose, velvety, then nearly smooth, rhubarb coloured, at length marked with red bands; gills sub-ramose, lacerated at the margin.

108. **Boletus Spraguei.** *B. & C.*—Pileo convexo, flavo, coccineo-squamuloso; stipite flavo, coccineo-notato; poris viridi-flavis, amplis, angulatis, decurrentibus; velo tenui albo-evanescente; carne e flavo purpurascete. No. 5801 (cum icone). New Eng. Sprague.

Pileus above 3 in. across, convex, yellow, with crimson scales; stem yellow, dotted with crimson, $1\frac{1}{2}$ in. high, nearly $\frac{1}{2}$ in. thick above, attenuated below; pores greenish yellow, broad, angular, decurrent, the thin white veil evanescent; flesh yellow, becoming purplish; spores ochraceous.

109. **Boletus Curtisii.** *B.*—Pileo hemispherico, viscoso; stipite tenui, sursum attenuato, polito, reticulato; poris umbrinis, liberis. No. 3212. Car. Inf. Curtis. In pine woods.

Pileus 1 in. or more across, hemispherical, viscid; stem 2 in. high, $\frac{1}{8}$ in. thick, attenuated upwards, polished, reticulated; pores, umber, free; spores ferruginous.

110. **Boletus hemichrysus.** *B. & C.*—Pileo convexo, crasso, aureo-pulverulento; stipite subconcolore, decorsum pulveraceo; mycelio luteo; poris amplis, decurrentibus. No. 2928. Car. Inf. Ravenel. On roots of *Pinus palustris*.

Pileus $1\frac{1}{2}$ - $2\frac{1}{2}$ in. across, convex, thick, powdered with yellow; stem 1 in. high, $\frac{1}{4}$ - $\frac{1}{2}$ in. thick, nearly of the same colour, pulveraceous below; mycelium yellow; pores broad, decurrent.

111. **Boletus Ravenelii.** *B. & C.*—Pileo convexo, stipite tenui.

veloque sulfureo-pulverulentis; poris planis, umbrinis.—No. 1970. Car. Inf. Ravenel.

Pileus 1-1½ in. across, convex; stem 1½ in. high; 1½-3 lines thick, attenuated upwards, as well as the veil, sulphury-pulverulent; pores plane, amber.

112. **Boletus auriflammeus.** *B. & C.*—Pileo convexo, stipiteque sursum attenuato, aureo-pulverulentis; poris liberis, amplis, ore cinnabarinis. No. 6467. N. Car. Curtis.

Pileus 1 in. across, convex, and as well as the stem powdered with golden yellow; stem attenuated upwards, 1 in. high, with a strong depression round the top; pores free, broad, the orifices scarlet. A lovely species, allied to the two last.

* **Boletus calopus.** *Fr.*—No. 5720. New England. Sprague.

113. **Boletus retipes.** *B. & C.*—Pileo convexo, sicco, luteo-pulverulento; stipite subæquali, usque ad basin reticulato, deorsum pulverulento; poris luteis, adnatis. No. 6414. Car. Sup. Curtis. In grassy woods.

Pileus 1½ in. across, convex, dry, powdered with yellow; stem 2 in. high ¼-½ in thick, reticulated to the base, pulverulent downwards; pores yellow, adnate. Pilei arising from a common base.

* **Boletus parasiticus.** *Bull.*—New. Eng. Sprague.

* **Boletus edulis.** *Bull.*—No. 5333. New England. Sprague. (cum icone.) This was returned with the name *B. alveolatus*, *B. & C.*, but it is either *B. edulis* or very nearly allied.

* **Boletus Ananas.** *Curt.* Kew Gard. Misc. i. p. 101.—Pileo floccoso-verrucoso; floccis supra candidis, subtus carneis, margine lacerato, membranaceo; stipite candido; poris planis luteis. No. 1649. Santee River.

Pileus 2 in. or more across, floccoso-verrucose the flocci whitish above, flesh coloured beneath; margin torn, membranaceous; stem 4 in. high, white; pores plane, yellow; spores ferruginous.

* **Boletus felleus.** *Bull.*—No. 1283. Car. Inf. Curtis.

* **Boletus castaneus.** *Bull.*—No. 5738, 5748. New Eng. Sprague (cum iconibus).

114. **Boletus Murrayi.** *B. & C.*—Pileo hemispherico, crassissimo, vivide rubro, granulato; carne flava; stipite clavato, flavo, laevi; poris angustissimis, decurrentibus, flavis. No. 5742 (cum icone). New Eng. Murray.

Pileus 2¾ in. across, nearly 1½ in. thick, vivid red, granulated; flesh yellow; stem clavate, yellow, even; pores about a line deep, decurrent, yellow. Spores, as in *B. castaneus*, pale yellow.

* **Strobilomyces strobilaceus.** *B.*—Ohio, Lea. No. 507. Car. Inf. Curtis. No. 3889, Texas. C. Wright.

115. **Polyporus (Mesopus) dibaphus.** *B. & C.*—Pileo orbiculari, atropurpureo, subtiliter tomentosio, glabrescente, lineis pallidis hic illic radiato; stipite gracili, subconcolore, deorsum pruinato;

poris decurrentibus, ochroleucis, angulatis, parvis. No. 6062, Alabama, Peters, on *Ilex opaca*.

Pileus 1 in. across; orbicular, dark purple, finely tomentose, becoming smooth, with here and there pallid radiating lines; stem slender, nearly of the same colour, pruinose downwards; pores decurrent, pale ochre, angular, small.

* **Polyporus (Mesopus) lepideus.** Fr.—No. 3068. Sartwell.

* **Polyporus (Mesopus) arcularius.** Fr.—No. 3142. Texas, C. Wright. Car. Inf. Ohio, Lea.

— 116. **Polyporus (Mesopus) dependens.** B. & C.—Pileo turbinate, ferrugineo, sericeo-striato, stipite brevi, villosa, e basi spongiosa oriundo, porisque angulatis, parvis, concoloribus. No. 3691. Car. Inf. Curtis. On the under side of pine logs.

Pileus $\frac{1}{2}$ in. across, turbinate, ferruginous, silky-striate; stem $\frac{1}{3}$ in. high, about a line thick, villous, springing from a spongy base; pores angular, small, of the same colour. Hymenium sometimes proliferous.

* **Polyporus (Mesopus) Schweinitzii.** Fr. = *P. tabulæformis*, B. No. 3920. Car. Inf. Curtis. No. 4280. Penns. Michener.

* **Polyporus (Mesopus) lentus.** B.—No. 5596. Connecticut. C. Wright.

— 117. **Polyporus (Mesopus) luridus.** B. & C.—Pileo orbiculari, umbilicato, fusco, pulverulento, margine incurvo; stipite cylindrico, subconcolore; poris cinereis, parvis, angulatis. No. 5598. Conn. C. Wright. Wisconsin, Lapham.

Pileus 1-1 $\frac{1}{2}$ in. across, orbicular, umbilicate, brown, pulverulent, sometimes rugose, margin incurved; stem $\frac{1}{2}$ - $\frac{3}{4}$ in. high, 2 lines thick, rooting; pores ash colored, small, angular.

* **Polyporus (Mesopus) rufescens.** Fr.—No. 1953, 2089, 2125, 2581, 2147. Car. Inf. Curtis. No. 3616. Penns. Michener.

— 118. **Polyporus (Mesopus) persicinus.** B. & C.—Pileo molli, tomentoso, pulvinato, atropurpureo; stipite, crasso, concolore; poris, angulatis; carne rubidâ, sub-cuticulâ atropurpureâ, quandoque zonatâ. No. 2945. Car. Inf. Ravenel.

Pileus 4 in. or more across, often oblique, soft, tomentose, pulvinate, dark purple; stem 2 in. high, 1 $\frac{1}{2}$ in. thick, concolorous; pores angular, $\frac{1}{50}$ in. across, flesh-red, dark purple beneath the cuticle; sometimes zoned.

* **Polyporus (Mesopus) tomentosus.** Fr.—No. 5699. New Eng. Sprague.

* **Polyporus (Mesopus) Boucheanus.** Fr.—No. 738. Car. Sup. No. 2482. Car. Inf. Curtis, No. 5595. Conn. C. Wright. No. 6201. New Eng. Sprague. Ohio, Lea. Like many other species of this section, frequently pleuropous.

— 119. **Polyporus (Mesopus) delicatus.** B. & C.—Pileo orbiculari, ochraceo, tomentoso; margine tenui, acuto; stipite brevi, radi-

cante ; poris angulatis, dissepimentis tenuibus, usque ad basin decurrentibus. No. 4512. Alabama, Peters.

Pileus $\frac{3}{4}$ in. across, orbicular, ochraceous, tomentose ; margin thin, acute ; stem $\frac{1}{4}$ in. high, 2 lines thick, rooting ; pores angular, dissepiments thin, decurrent to the very base, $\frac{1}{50}$ in. across.

* **Polyporus (Mesopus) ovinus.** Fr.—No. 1034. Car. Inf. Curtis. Ohio, Lea.

— 120. **Polyporus (Mesopus) flavo-virens.** B. & Rav.—Pileo molli, irregulari, pulvinate, vel depresso, subtiliter tomentoso, flavo-viridi ; stipite pallido, sub-concolore, crasso ; poris irregularibus, dissepimentis tenuibus flavis. No. 5659. New Eng. Sprague.

Pileus 3-4 in. across, soft, irregular, pulvinate or depressed, delicately tomentose, greenish-yellow ; stem pallid, 2 in. high, $\frac{1}{2}$ in. thick ; pores irregular, $\frac{1}{50}$ in. across, dissepiments thin, yellow.

* **Polyporus (Mesopus) confluens.** Fr.—No. 1622, Car. Inf. Ravenel.

* **Polyporus (Mesopus) leucomelas.** Fr.—No. 5662. New Eng. Sprague. Ohio.

— 121. **Polyporus (Mesopus) cupulæformis.** B. & C.—Rav. Fung. Car. Fasc. i. no. 10. Pileo cupulæformi demum reflexo, rufo tomentoso ; stipite brevissimo ; poris minimis, concoloribus. No. 1209. Car. Inf. Curtis, on *Rhus copallina*.

Pileus a line or more across, cupulate, at length reflexed, rufo-tomentose ; stem scarcely a line high, $\frac{3}{4}$ thick ; pores minute, about $\frac{1}{50}$ in. across, concolorous. Stem and pileus sometimes white with age.

* **Polyporus (Pleuropus) Curtisii.** B.—Kew Gard. Misc. i. p. 101. Pileo excentrico, molli-suberoso, sulcato, zonato, ochroleuco, hic illic sanguineo-laccato ; stipite elongato, rugoso, sanguineo-laccato ; hymenio ex albo ochraceo ; poris punctiformibus.

Pileus 3-6 in. across, eccentric, between soft and corky, sulcate, zoned, pale ochre, here and there red-laccate ; stem 2-5 in. high, $\frac{1}{2}$ -1 in. thick, rugose, laccate ; hymenium white, then ochraceous ; pores punctiform.

* **Polyporus (Pleuropus) luteus.** Nees.—No. 2256, Car. Inf. Curtis.

— 122. **Polyporus (Pleuropus) Ravenelii.** B. & C.—Pileo sub-flabelliformi, demum lobato, zonato, albido, lineato-sericeo ; stipite albo, pruinato, poris ochroleucis, minimis. No. 2859. Car. Inf. Ravenel.

Pileus 1-1 $\frac{1}{2}$ in. across, sub-flabelliform, at length lobed, zoned, whitish, with silky lines ; stem $\frac{3}{4}$ in. high, 2-3 lines thick, white, pruinato ; spores pale-ochrey, $\frac{1}{20}$ in. across. Allied to the last.

— 123. **Polyporus (Pleuropus) mutabilis.** B. & C.—Pileo flabelliformi, zonato, postice pallido, antice rufo, sericeo-striato ; stipite variabili ; poris minimis, ochroleucis. No. 2943. Car. Inf. Ravenel.

Pileus $2\frac{1}{2}$ in. across, very variable, sometimes much elongated, flabelliform, zoned, pallid behind, rufous in front, silky striate; stem variable, obsolete or much elongated; pores minute, $\frac{1}{150}$ in. across, pale ochre. The same species occurs on Rio Negro. *Polyporus fibroso-radians*, Mont. is very near, but if the same not the typical form.

— 124. **Polyporus (Pleuropus) fractipes.** B. & C.—Ochraceus; pileo reniformi, irregulari, rugoso, tomentoso, hic illic hispidulo; stipite irregulari distorto, quandoque postice adnato, pulverulento; poris minimis. No. 2858. Car. Inf. Ravenel. No. 4706. Car. Inf. Curtis.

Pileus nearly 2 in. across, reniform, irregular, rugose, tomentose, here and there hispid, ochraceous; stem $1-1\frac{1}{2}$ in. high, 2-4 lines thick, irregular, distorted, sometimes adnate behind, pulverulent; pores minute, $\frac{1}{20}$ in. across.

— 125. **Polyporus (Pleuropus) dealbatus.** B. & C.—Rav. fasc. 3, No. 10. Pileo convexo, zonato, quandoque sulcato, dealbato; stipite elongato, distorto, pruinoso; hymenio concavo, albido; poris microscopicis. No. 1524. Santee River, Ravenel. On the ground in woods.

Pileus $\frac{3}{4}-1\frac{3}{4}$ in. wide, convex, zoned, sometimes sulcate, becoming whitened; stem $2\frac{1}{2}$ in. high, $\frac{1}{4}$ in. or more thick, distorted, pruinose; hymenium concave, whitish; pores microscopical, $\frac{1}{200}$ in. across. Sometimes mesopodous.

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A NEW BRITISH WEISSIA.

Weissia truncicola. De Notaris, *Epilogo della Briol. Ital.*, p. 598 (Journ. Bot., 1871, pl. cxix., f. 2). Dioicous? in large dense tufts, interwoven at base with branched radicles, bright green. Stem innovating dichotomously, 1-2 in. high, flexile, reddish, bearing lax radicles at the lower part from the axils of the leaves. Leaves approximated, erect when moist, and often somewhat secund on the second shoots, rather soft, papillose at back, from a narrowly lanceolate base, gradually subulate, channelled, with a thin nerve reaching the apex, the margin not revolute, sharply denticulate above, and on the back of the nerve; when dry strongly cirrhate and twisted. Cells at base large cylindrico-vesicular, the rest small, quadrate, or subhexagonal, filled with deep green chlorophyll.

Growing in expanded tufts, like *Weissia cirrhata*, the leaves resembling those of *Weissia Bruntoni*, but longer, and the margin not revolute.

HAB. On the base of the trunk of an oak in Lower Nuthurst, Sutton Park, Birmingham. (J. Bagnall, Aug. 27, 1870.) Identical with original specimens gathered by Carestia in the Val d'Intrasca, near Verbano. R. Braithwaite, M.D., in *Journ. Bot.* 1871, p. 289.